



Naval Information Warfare Center Atlantic

NavalX Palmetto Tech Bridge

Leadership Council
Quarterly Meeting
16 June 2020



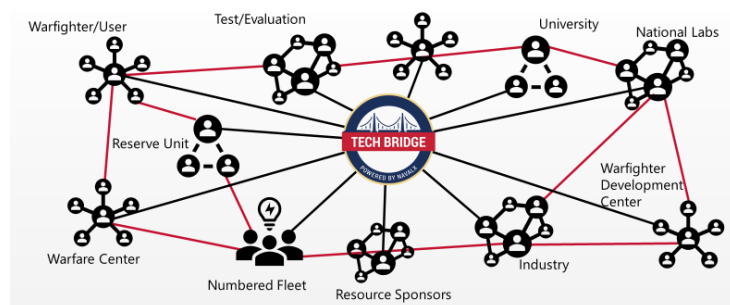
Michael Merriken
Director, Palmetto Tech Bridge
NIWC Atlantic

Mission

- Better Connect the Naval Network
- Facilitate and Scale Agility Methods to the Workforce

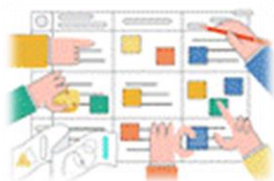
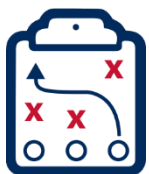
Tech Bridges

- Increase Network of Partners and collaboration



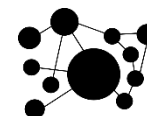
Build Workforce Capability

- Adapt and innovate faster
 - Playbooks
 - Center for Adaptive Warfighting (CAW)



Network of Collider Spaces

- Ability to host
 - Workshops
 - Off sites
 - Prize Challenges
 - Industry Events
 - Pitch Days



▼ NavalX is ...

- **Not** replacing other Naval innovation or war room efforts
- **Not** a buying activity like DIU
- **Not** a funding activity
- **Not** a means to circumvent the POM process
- **Not** competing with other defense innovation hubs (SOFWERX, NSIN, AFWERX, etc.)

▼ NavalX is....

- Building networks, breaking down silos, and connecting people!
- Accelerating the pace of discovery, learning, experimentation
- Making change easier

Tech Bridge Locations

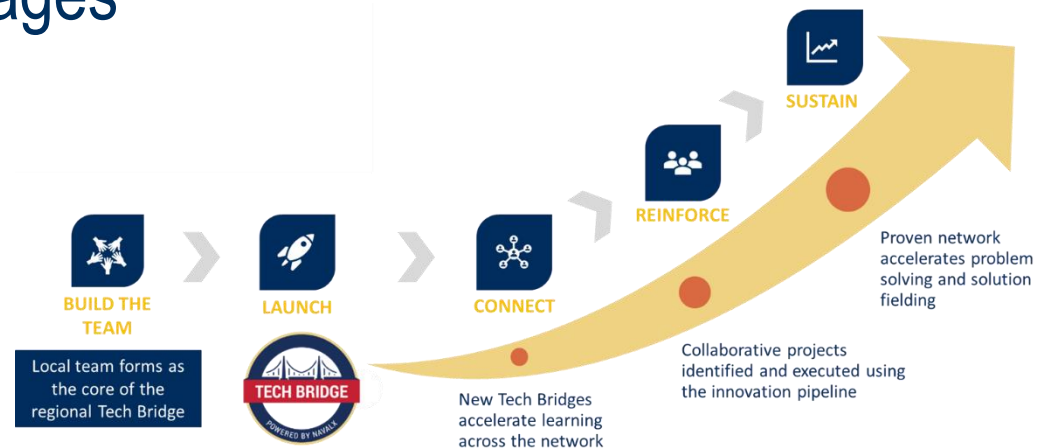
TECH BRIDGE LOCATIONS



Tech Bridge Stages

NavalX – Tech Bridge Stages

- Build the Team
- Launch
- Connect
- Reinforce
- Sustain



- New Tech Bridges accelerate learning across the network
- Collaborative projects identified and executed using the innovation pipeline
- Proven network accelerates problem solving and solution fielding

▼ NavalX Collaboration Tools

- Virtual Connections and Weekly Drumbeats
- Monthly Report to ASN (RDA), DASN RDT&E, & CNR
- Quarterly Offsite Meetings
- SWOT Analysis



COLLABORATION TOOLS



VIRTUAL CONNECTIONS & WEEKLY DRUMBEAT



MONTHLY REPORTS TO ASN (RDA), DASN RDT&E, & CNR



QUARTERLY OFFSITE MEETINGS



SWOT ANALYSIS

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▼ Objective

- To build, enhance and sustain a regional naval innovation ecosystems centered around the NIWC Atlantic lab that supports greater collaboration with a variety of partners and stakeholders on projects of relevance to the DON and work toward transitioning dual-use solutions to meet both national defense needs and enhance the region's economic strength with innovative commercial products.

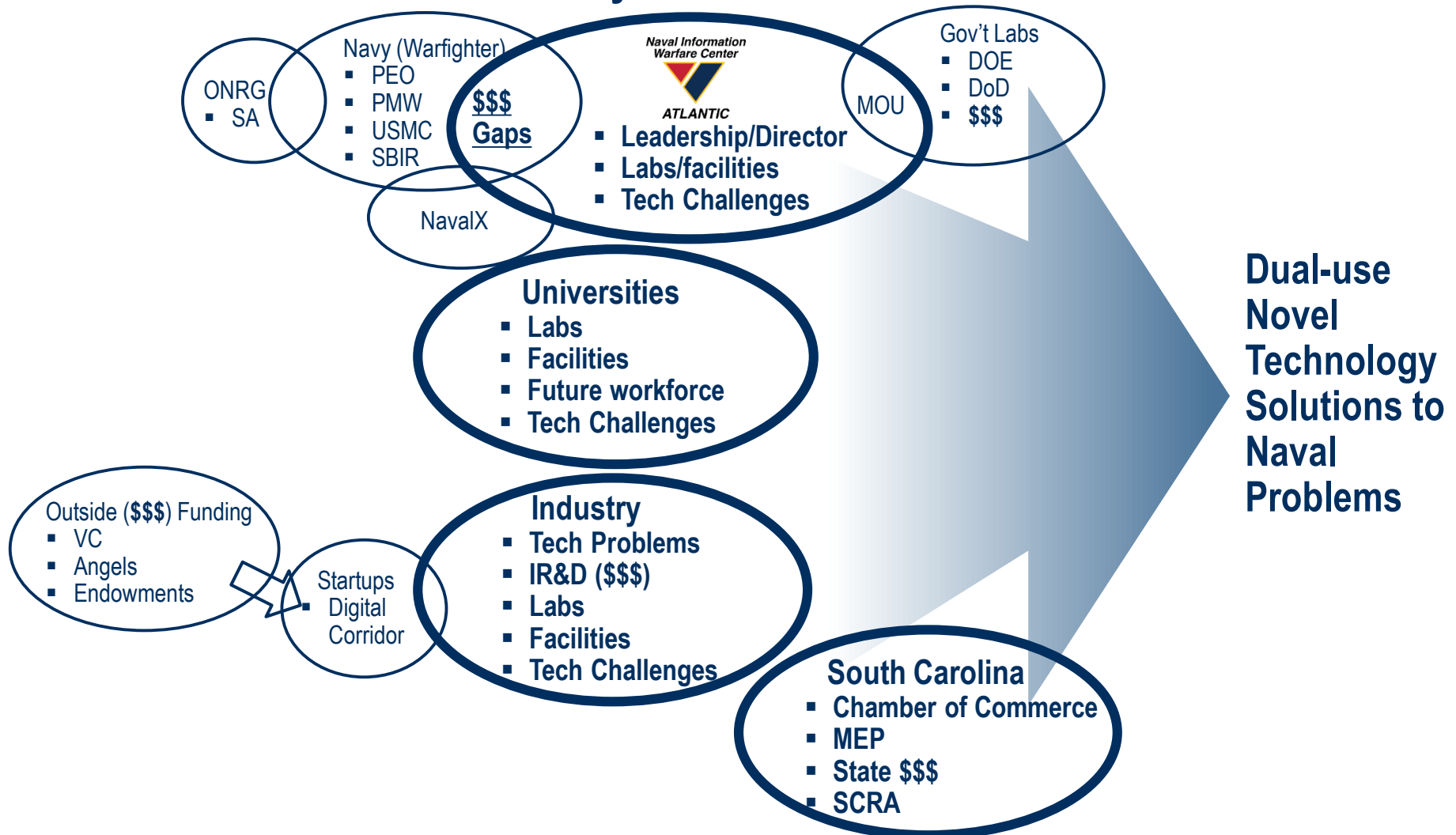
▼ Success

Develop collaboration and trust as an innovation ecosystem allowing us to more quickly and agilely, take risks, think creatively, to produce timely solutions and become known as a center of excellence for the Navy and South East region



Palmetto Tech Bridge

Collaboration/Innovation Ecosystem



Palmetto Tech Bridge

Collaboration/Innovation Ecosystem

Success Criteria

Naval Warfighter

Reputation

Profit/ROI

Economic Development

Naval Information
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ATLANTIC

- Leadership/Director
- Labs/facilities
- Tech Challenges

MOU

Gov't Labs

- DOE
- DoD
- \$\$\$

Universities

- Labs
- Facilities
- Future workforce
- Tech Challenges

Industry

- Tech Problems
- IR&D (\$\$\$)
- Labs
- Facilities
- Tech Challenges

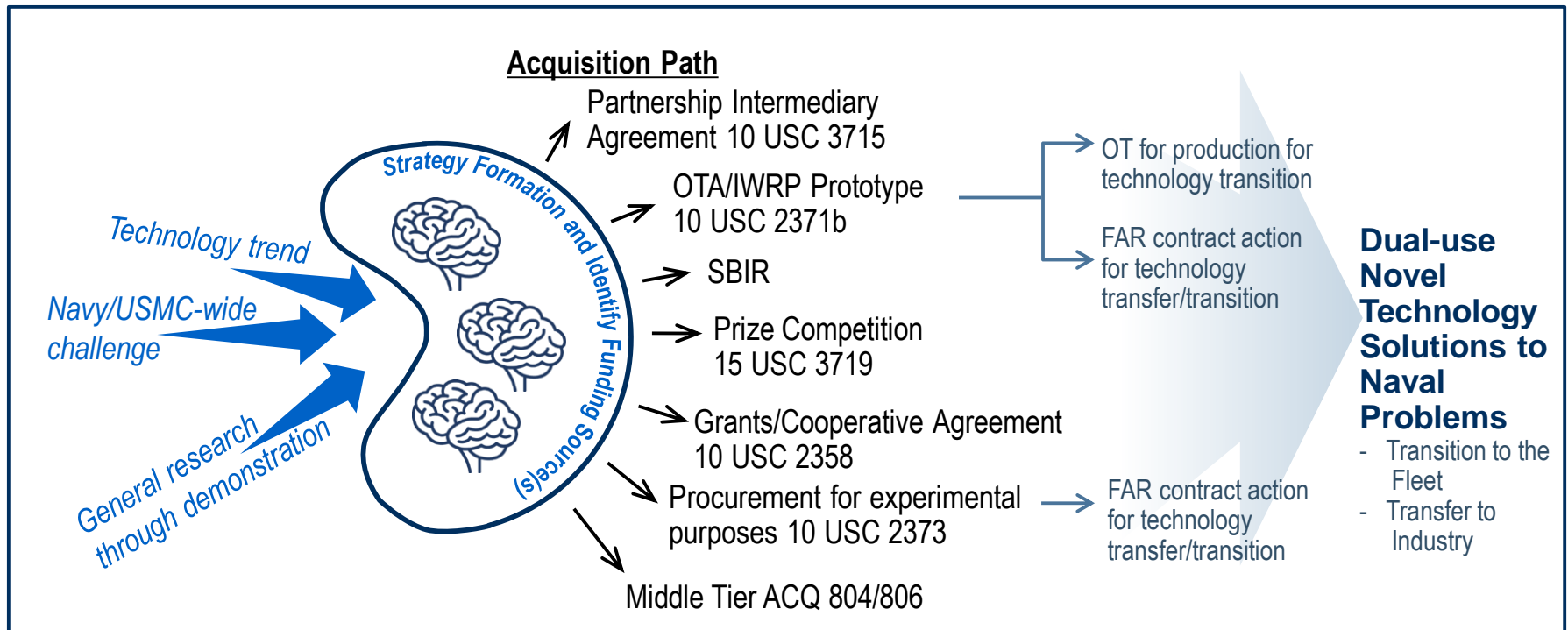
South Carolina

- Chamber of Commerce
- MEP
- State \$\$\$
- SCRA

Dual-use
Novel
Technology
Solutions to
Naval
Problems

Palmetto Tech Bridge

- ▼ Looking at technology trends
- ▼ Working large problem sets applicable to Fed/State Gov't, Private Sector and Academia
- ▼ Not an independent acquisition authority



Palmetto Tech Bridge

▼ Multi-year plan

- Refine and initiate first Technical Challenge
 - RFI, Prize Challenge, Prototyping
- Clarify PTB Innovation Ecosystem and “rules of the road”
 - Break down processes....but not break laws
 - Mindset: Take calculated risks be ready to adapt Why Not??
- Identify off-site location(s)
 - OASIS
- Need to further refine the focus areas that address both Navy and partners problems/interests
 - Cybersecurity
 - Autonomous Systems
 - Advanced Manufacturing
 - Communications (5G)
- Generate a PTB Roadmap for follow-on years
 - Use BMNT Problem Curation process

Palmetto Tech Bridge Site Location Ideas

▼ Targeting opening Aug 1



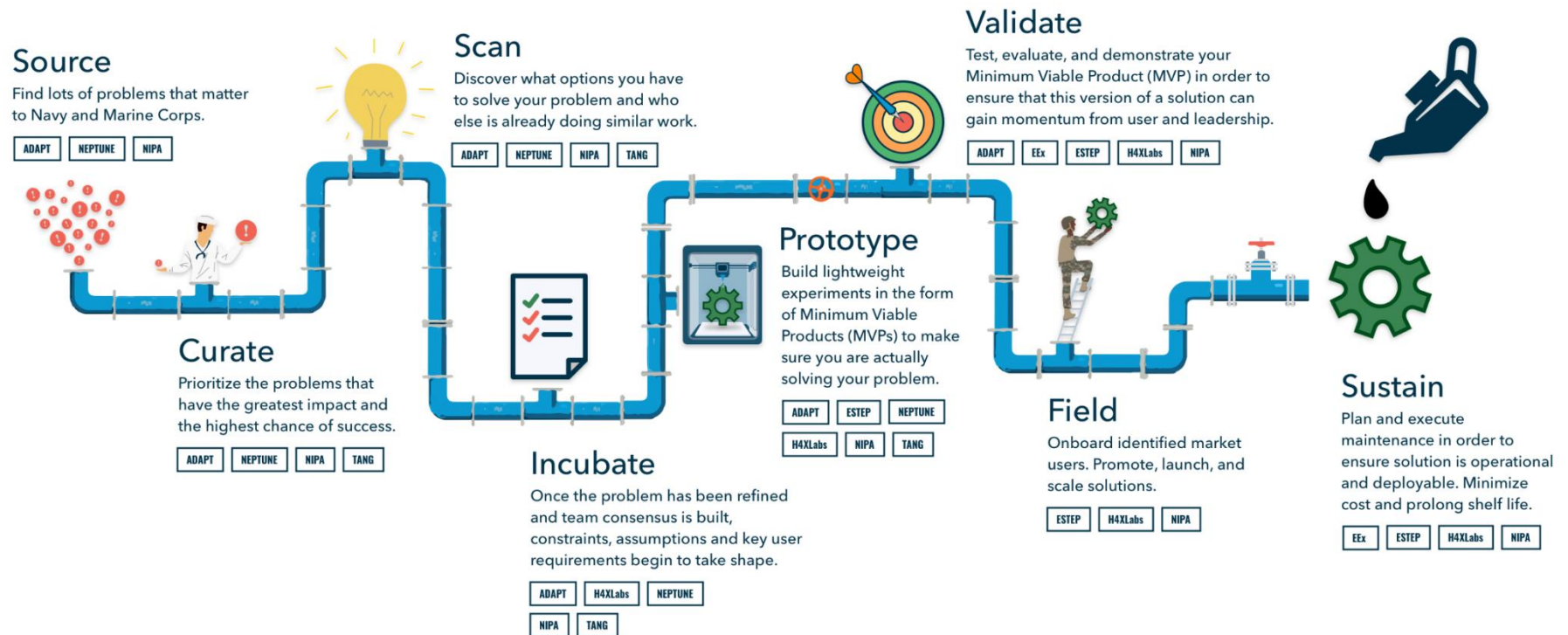
Palmetto Tech Bridge

▼ Network and Data Center Intelligent Assistant (NADIA)

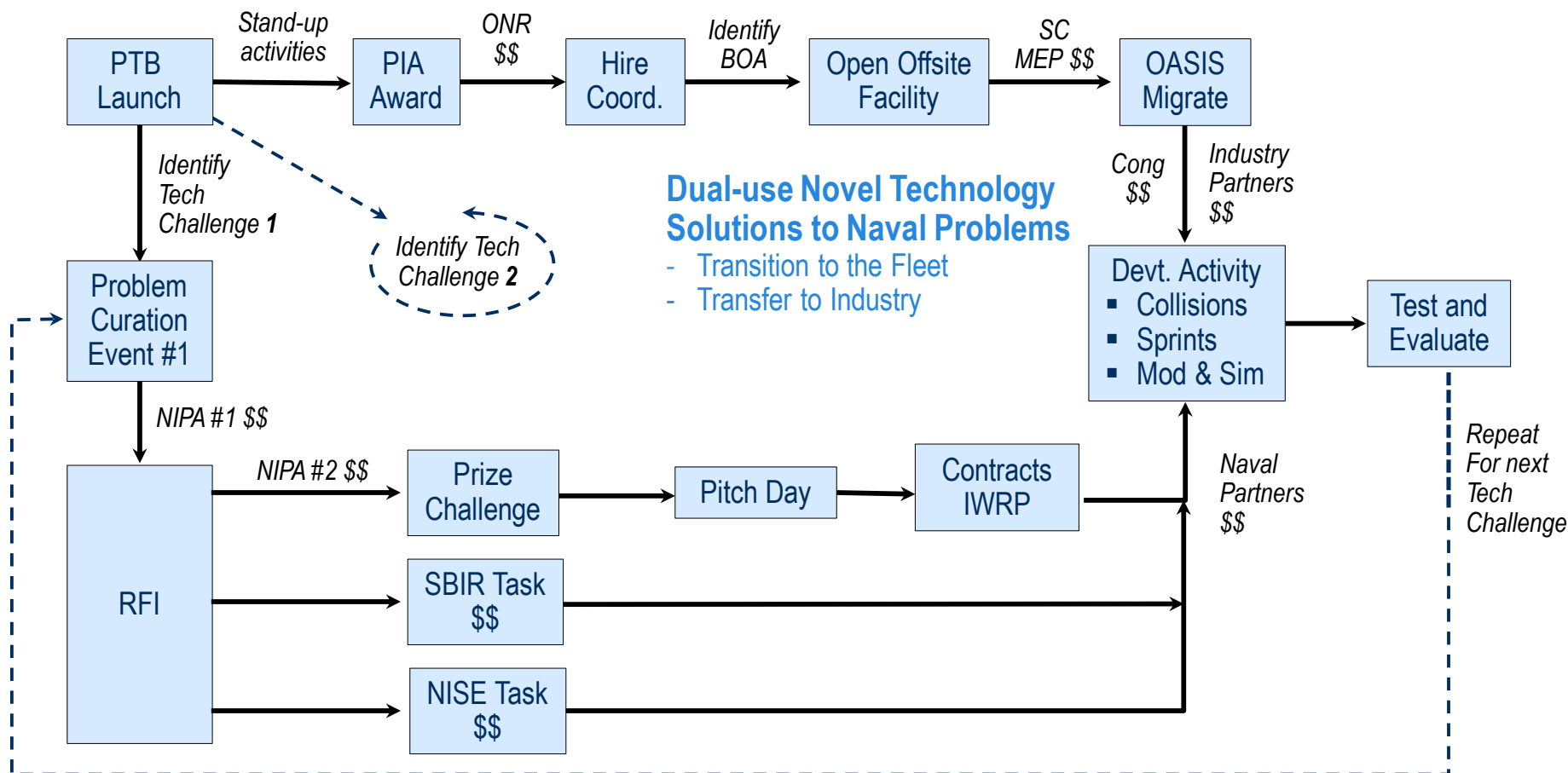
- Troubleshooting and Reference assistant:
 - The system/network manager would use this assistant when an issue on the network arose.
 - Manually trigger the assistant by clicking from the network image or it could be triggered automatically when a critical failure occurred and was displayed on the network image.
 - The trouble shooting image would attempt to identify the problem and make recommended fixes after the operator concurred with those corrections.
- Utilize ML/AI along with natural language processing to search all available documentation for the system/network manager's query.
 - Automatically provide reference information when queried from the troubleshooting assistant

Naval Innovation Pipeline

NAVALX Innovation Pipeline



Palmetto Tech Bridge Year 1 Road Map



Palmetto Tech Bridge

▼ Information Outlet

- <https://www.public.navy.mil/navwar/Atlantic/Pages/PalmettoTechBridge.aspx>
- <https://www.secnav.navy.mil/agility>

▼ Contact

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*Naval Information
Warfare Center*



ATLANTIC

Questions?



Serve our Nation by delivering information warfare solutions that protect national security. WIN THE INFORMATION WAR.



NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: <https://www.public.navy.mil/navwar/Atlantic> Facebook: <https://www.facebook.com/NavalInformationWarfareSystemsCommand>

Twitter: <https://twitter.com/navwarHQ> Instagram: <https://www.instagram.com/spawarhq/> LinkedIn: <https://www.linkedin.com/company/spawar/>

Glassdoor: https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm

Employment opportunities: <https://www.usajobs.gov/> NIWC Atlantic Small Business: <https://www.public.navy.mil/navwar/Atlantic/Pages/ForIndustry.aspx>

NAVWAR Contract Directorate Office: <https://e-commerce.sscno.nmci.navy.mil>

Palmetto Tech Bridge

▼ Define partners and contributions

		Location	Additive Manufacturing	Autonomous Systems	Collaboration Space	Software Development	Cyber Research	Industry/Gov/Academia Networking	Training	Incubator Services	Funding Source	Federal Tech Commercialization	NWC PIA			
Regional Navy Sites	MRC	NIWCLANT	X	X	X	X	X	X	X		X	X				
	Digital Integration Lab	NIWCLANT					X	X								
Off Base Sites	Digital Corridor	Charleston	X	X	X	X	X	X	X	X		X	X			
	McNair Center	Columbia	X	X	X	X		X	X	X						
	Flagship Incubator	Charleston	X		X	X			X	X		X				
	Tech Center	Charleston	X	X	X	X		X	X		X					
National Organizations	SCRA				X	X		X					X			
	SC MEP		X							X		X				